

# CONTINUING ENGINEERING SERVICE CONTRACT

Sumter County Public Works Division

Road and Bridge Department

WORK ORDER #9

WORK ORDER DATE: 10/1/2009

## CR 139 and C-466A PROJECT OVERSIGHT

To: *Volkert & Associates, Inc.*

3409 W. Lemon Street

Tampa, Florida 33609

Attn: Jerry A. Dabkowski, P.E.

**FUNDING SOURCE:** District 1 Impact Fees

**EXPENDITURE** 151-340-541-6556 CR 139

**ACCOUNT:** 151-340-541-6520 C-466A Phase II

You are hereby authorized to commence the following work outlined in the attached scope of work. Approved work order amount not to exceed **\$57,000.** \$33,250.00 for CR 139 and \$23,750.00 for C-466A Phase II.

**Requested By:**

**Assistant Public Works Director for  
Planning, Engineering and  
Environmental Projects**

**Date:**

**Approved By:**

**Director Sumter County Public  
Works**

**Date:**

**Authorized By:**

**County Administrator**

**Date:**

**Authorized By:**

**BOCC Chairman**

**Date:**

# **PROPOSED SCOPE OF WORK**

## **CR 139 and C-466A Roadway Improvements - Project Oversight**

**Project Limits:** CR 139 - from SR 44 north to C-466A and C-466A Phase II - from west of CR 139 to Buena Vista Boulevard.

**Sumter County Project Manager:** *William F. Stevens, Jr., P.E.*

**Expenditure Account Code:** 151-340-541-6556 CR 139

151-340-541-6520 C-466A Phase II

### **BACKGROUND:**

Both CR 139, from SR 44 to CR 466A, and C-466A Phase II, from west of CR 139 to Buena Vista Boulevard, are to be improved to a four lane typical section. Both of these projects are cooperative ventures between Sumter County and a developer (The Villages) utilizing road impact fees as a funding source in agreements approved by the Sumter County Board of County Commissioners. These are permitted projects, therefore, they are not under the direct supervision of the County Public Works Engineering Staff, for this reason, we inspect the projects only periodically, to assure compliance with the plans and specifications. Engineering staff would normally visit the construction site, on average, three times a week, although, as a result of staff shortage and an increase in projects under construction, outside assistance is needed to facilitate the oversight of these projects.

### **SCOPE OF WORK:** CEI / Project Oversight.

- Perform a maximum of three field inspections per week when construction is underway.
- Inspection duration is a two hour maximum, unless increased by the County.
- Bring to the attention of the County any deviation from construction documents or best construction practices.
- Review and approve monthly invoices and supporting documents.
- Forward approved invoices to the County for payment.
- Conduct final inspection along with Public Works Engineering staff.
- Attend one bi-weekly construction coordination meeting at The Villages Construction office.
- Review shop drawings.

### **SUBMISSIONS:**

- Weekly status reports and photos by letter or email.

### **MEETINGS:**

- As needed.

### **DOCUMENTS:**

- The County will provide copies of the final engineering plans, specifications, and monthly invoices for review and approval.

### **PAYMENT**

- Invoicing shall be on a monthly basis.

### **DURATION**

- The current construction anticipates CR 139 Phase 1 & 2 will be completed in March or April of 2010 and C-466A Phase II will be completed by September or October of 2011. **Please submit a proposal based upon a per month basis.**

- Should the County's staffing issue improve, the County will notify the firm no less than 30 calendar days in advance to discontinue this work.

-End Scope of Work-

## JEREMY LESLIE

### SENIOR INSPECTOR

#### TIN

- L240-427-79

#### YEARS OF EXPERIENCE

- 12 years total; 5 years with Volkert

#### CERTIFICATIONS

- CTQP Asphalt Paving Level I and Level II (expiration 3.15.10 and 2.10.11, respectively)
- CTQP Asphalt Plant Level I and Level II (expiration 4.8.10 and 6.13.12, respectively)
- CTQP Concrete Field Level I (scheduled to be taken)
- CTQP Earthwork Construction Inspector Level I and Level II (expiration 5.15.14)
- CTQP Drilled Shaft inspection (expiration 5.3.12)
- CTQP Final Estimate Level I (expiration 7.22.10)
- FDOT Maintenance of Traffic Intermediate Level (expiration 6.29.11)
- Radiation/Nuclear Gauges and HazMat (expiration 6.14.10)

#### SUMMARY

Mr. Leslie has been responsible for performing a wide range of highway feature inspections, sampling and testing of materials including: concrete, earthwork, asphalt, sub-grade, base, drainage, roadway signing and marking, pile driving installation and drilled shaft installation. His duties have included monitoring contractor's activities preparing daily reports and documenting material quantities.

#### EXPERIENCE

- **10.07 – 2.09, SR 434 Pedestrian Underpass, Seminole County, FL, Seminole County, CEI Inspector –** Construction of a cut and fill tunnel under SR 434 for pedestrians and bicyclists using the Wekiva Trail. The tunnel utilizes cast in place concrete for the ramps and precast segments for the main body. Other work included the restoration of the roadway, drainage improvements, lighting, utility relocation and signalization (including drilled shaft construction/inspection on four mast arm traffic signals). Responsible for all material sampling and testing as well as inspection and documentation of all work performed. Seminole County Master Agreement Number: PS-0955-06/DRR FPID: 24203125801 Contract Value: \$676495 Contact: William Glennon, Project Manager, Seminole County at 407.665.5654
- **3.07 - 1.08, FDOT I-95 Asset Management Project Bridge, Sign and Light Pole Inspection, Senior CEI Inspector –** Project is for all structures inspection and incidental engineering work on sections of I-95 Volkert is providing incidental engineering services on an as needed basis and is responsible for securing and managing specialty engineering services as needed. Additional engineering services have included: a visual assessment of the damage to bridges caused by Hurricane Wilma; repair design and CEI services for 75 signs that were damaged by Hurricane Wilma. The project included drilled construction/inspection on 19 sign structures.
- **7.03 – 5.04, SR 544 and US 27 CEI (Three Projects), Polk County, FL, PD&E and FDOT District 1, Senior Inspector –** CEI services for three projects SR 544 from East of US 27 to SR 17, US 27 from Towerview Boulevard to SR 540, SR 544 from North of Avenue Y NE to 0.6 miles West of US 27. Services include construction engineering, inspection, materials sampling and testing, drilled shaft construction of nine drilled shafts for mast arm traffic signals, and contract administration for the three projects. Contact: Ben Harris, Project Administrator, FDOT District 1 at 863.519.2300
- **8.06 - Present, FDOT District 7 Sunshine Skyway Asset Management Project, CEI Inspector–** Project consists of routine inspection of eleven bridges, including the Sunshine Skyway Cable-Stayed Bridge over Tampa Bay, and the adjacent 36 large concrete dolphins. Services include inspections, load ratings, MOT, and incidental and emergency response engineering services. Inspections and reporting utilize the Pontis format including CDIR development. Volkert is also responsible for initiation of work orders and processing.



Emergency response has included inspections following Hurricanes Frances and Jeanne in 2004 and Misener Fender Repairs. (3.04 – 3.10)

- **3.06 – 1.08, FDOT I-75 Asset Management Project Miscellaneous Services, CEI Inspector** – Project consists of routine inspection of approximately 365 bridges, and 125 overlane signs along a 250 mile segment of I-75. Structures inspection services include interim, underwater and may include initial inspections due to major repairs, new bridges or reconstruction. Additionally, load ratings and extensive MOT are required. Inspections and reporting utilize the Pontis format including CDIR development and EDMS. Volkert is also responsible for initiation of work orders and processing. Emergency response safety assessment services were provided for Hurricane Jeanne in 2004 and Hurricane Wilma in 2006. CEI services are being provided for the sign replacements resulting from Hurricane Wilma damage. Additional CEI services include inspectors for all aspects of highway maintenance and construction by contractors. Responsibilities include inspection of signing and pavement markings, guardrail, pavement repair, drainage structure maintenance and repair, maintenance and repair of building facilities, maintenance and operation of water and wastewater treatment plants and roadside maintenance and repair.
- **1.03 – 12.08, District 1 and 7 Bridge Inspection and Maintenance (BRIM) Contract, CEI Inspector**– This is a six-year structures inspection and maintenance project involving approximately 3,800 structures including movable, long, and fixed bridges, culverts, signs, and high mast lights both state and locally owned. Volkert is teamed with ICA on this project and has the inspection, state maintenance system updating, and incidental engineering responsibilities. In addition to structures inspection the project requires coordination with local owners, state maintenance management system updating, recommending structure repairs, and engineering evaluation. Emergency response safety assessment services were provided for three hurricanes (i.e. Charley, Frances and Jeanne) in 2004 and Hurricane Wilma in 2006. Emergency repair services have been provided for: US 41 over US 301 and Anna Maria Drawbridge in Manatee County; Clearwater Memorial Drawbridge, Johns Pass Bridge and I-375 in Pinellas County; Wilson Pigott Bridge in Lee County; SR 39 over the Hillsborough River in Pasco County, and Crosstown Expressway and Gandy Bridge in Hillsborough County.
  - The District 1 North area covers six counties and provides inspections for 851 fixed bridges, 119 over-lane signs and high mast lights, 16 movable bridges for a total of 986 total structures. Additionally, 124 interim/annual inspections are provided resulting in 1,110 total inspections.
  - The District 7 area covers five counties and provides inspections for 1,116 fixed bridges, 511 over-lane signs and high mast lights, 23 movable bridges for a total of 1,650 total structures. Additionally, 79 interim/annual inspections are provided resulting in 1,729 total inspections.
    - ❖ I-375 (Bridge #150124) Emergency Repair, St. Petersburg, FL, *CEI Inspector* - In March 2007 a tanker truck lost control, crashed and spilled the load of fuel it was carrying resulting in an intense fire. As subconsultant to Infrastructure Corporation of America, Inc. (ICA), Volkert provided an emergency damage assessment within hours of the late night incident and subsequently provided the repair design and CEI services for damage. All the work was performed on an emergency (24/7) basis. The facility is an elevated ramp consisting of AASHTO beam superstructure supported on concrete piers. Included in the damage assessment was material testing of the fire damaged concrete and of the reinforcing steel. Preliminary design used for contractor bid was provided 26 hours following the incident. Repair design continued on fast track pace in close coordination with the FDOT and contractor (Johnson Brothers). The damage covered eleven spans of the bridge and two piers. Repairs included pre-stressed concrete beam replacement in four spans and one total span replacement along with deck/barrier replacements, concrete pier repairs and miscellaneous repairs. The five affected spans were generally 94 feet and 87 feet in length. LRFD was prepared for the pre-stress beam design. The bridge reopened 23 days after the incident with 21 days repair time.
    - ❖ I-275 (Bridge #100200) over Columbus Drive Emergency Repair, Hillsborough County, FL, *CEI Inspector* - The bridge carries northbound mainline I-275 and is an AASHTO beam overpass structure. An over height truck hit an interior beam generally destroying it. Volkert performed the on-site damage assessment, prepared design plans for repair and provided the construction engineering inspection. All the work was performed on an emergency (24/7) basis. Corrective action included replacement of a portion of the deck plus the damaged beam. A lesser height AASHTO beam was used for the replacement to improve the vertical clearance. Repair plans included structural repairs and maintenance of traffic.

- The District 1 South area covers six counties and provides inspections for 865 fixed bridges, 65 over-lane signs and high mast lights, 7 movable bridges for a total of 937 total structures. Additionally, 54 interim/annual inspections are provided resulting in 991 total inspections.
  - ❖ **Rampart Boulevard (Bridge #010088) over I-75 Emergency Repairs, Charlotte County, FL, CEI Inspector** - Bridge #010088 is a six span AASHTO beam bridge carrying a county road over I-75. An over height truck on I-75 struck the bridge destroying three beams. Volkert performed the on-site damage assessment, prepared design plans for repair and provided the construction engineering inspection. The work was performed on an emergency (24/7) basis. The corrective action included replacement of the beams and the corresponding deck and barrier. Maintenance of traffic plans were developed for both I-75 and Rampart Boulevard. The replacement beams are AASHTO beams in a 96.5 foot span. The repairs were designed in accordance with LRFD Bridge Design Code.
- The entire projects provides 160 inspections per month) and provides inspections for 2,832 fixed bridges, 695 over-lane signs and high mast lights, 46 movable bridges for a project total 3,573 total structures. Additionally, 257 interim/annual inspections are provided resulting in 3,830 total inspections for the project.
- **7.05 – 11.06, Push Button Bridge Repair Projects, Hillsborough, Pinellas, Pasco, Hernando, and Citrus Counties, FL, Parsons, Brinkerhoff, Quade & Douglas and FDOT District 7, CEI Inspector** - Volkert provided the CEI services which includes but was not limited to the following: verification testing and observation of the contractor's quality control sampling and testing of all materials incorporated into the project which included monitoring of all MOT set up and take down (including suggesting actions necessary to correct MOT hazards/inconsistencies), verification both visual and testing of concrete deteriorated concrete removal and replacement (gunite as well as for latex modified mortar) used to replace concrete material for bridge handrail, deck and substructure repairs. Monitoring of concrete beam cable replacement with splices and replacement of concrete, box culvert spall repair and matrix replacement, structural steel cleaning (blasting operations including hazardous materials containment system installation and correct operation to insure air quality during blasting operations and disposal of hazardous materials as necessary, complete record keeping and reporting of all construction activities by the contractor as well as for all sub-contractors and contract item quantities for periodic and final payments to the contractors per the contract. This project included the cleaning and coating of the following three bridges (FPID 4082791521): Bridge #150133 Alt 190/ST 595 Eastbound over SR 666, Bridge #100351 SR 93A/I-75 over Valroy Road and Bridge #150038 SR 93/I-275 over Bunces Pass. Contract FPID: 41259313202, 41259316202 Contract Value: \$217,848 Contact: FDOT District 7, James Jacobsen, PE at 813.744.6050
- **8.06 – 3.07, Utility Improvement Projects, Washington DC, Senior Inspector** – Projects installing new and relocated water and force main systems. Responsible for inspecting all work, documenting quantities and locations and producing accurate as built drawings.

#### EXPERIENCE WITH OTHER FIRMS

- **9.02 - 7.03, Law Engineering and Environmental Services, Inc.**
  - **SR 52 Widening Design-Build Project, Pasco County, FL, Senior Inspector** – Performed plan review and daily, on-site construction inspection (day-time and night-time) of a \$3-million, 3.5 mile road widening project with new shoulders, turnouts, new and upgraded storm sewers, driveway improvements, and drilled shaft construction of two mast arm traffic signals. Responsibilities included plan review, daily inspection; materials sampling and testing; contract administration; monitoring of schedule, budget, and compliance to safety and environmental regulations and QC and maintenance-of-traffic plans. Used Site Manager and maintained daily logs and field books, quantity tracking, payments and invoices. Contact: Dan Haberle, Project Administrator, FDOT District 7 at 813.744.6062
  - **Busch Boulevard Widening, Hillsborough County, FL, Senior Inspector** – Performed daily, on-site construction inspection of a \$1.5-million, 1.25-mile widening project to add turnouts, medians, and sidewalks. Responsibilities included inspection; materials sampling and testing; contract administration; monitoring of schedule, budget, and compliance to safety and environmental regulations and QC and maintenance-of-traffic plans. Participated in monthly Design Review Board meetings and worked closely with contractor, utility company representatives, and FDOT representatives to resolve field problems and utility conflicts. Addressed citizen concerns and questions and dealt with media. Used Site Manager and



maintained daily logs and field books, quantity tracking, and payments and invoices. Contact: Alene Harris, Project Administrator, FDOT District 7 at 813.744.6062

- **3.01 - 8.02, Parsons Brinckerhoff Construction Services**
  - **Bryan Dairy Road Widening, Pinellas County, FL, *Senior Inspector*** – Senior Inspector responsible for inspection of earthwork, drainage, utility relocation, paving, drilled shaft installation of eight shafts for mast arms traffic signal and four for over head signs assemblies, and signalization. Performed material sampling and testing and documented all work for progress and final estimates
- **10.97 – 2.01, FDOT District 7 (Tampa Construction), *Plant Inspector*** – Responsible for materials sampling and testing, inspection and documentation of all work performed and final measurements. Contact: Brian Pickard, Resident Engineer, FDOT District 7 at 813.744.6062



## **BRIAN D. KANELY, PE**

### **SENIOR TRANSPAORTION ENGINEER**

#### **YEARS OF EXPERIENCE**

- 37 years total; 2 years with Volkert

#### **EDUCATION**

- MCE, North Carolina State University, 1972
- BSCE, North Carolina State University, 1969

#### **CURRENT PROFESSIONAL LICENSES**

- Professional Engineer, Florida #22592, 1977

#### **PROFESSIONAL AFFILIATIONS**

- Institute of Transportation Engineers
- American Society of Civil Engineers

#### **SUMMARY**

Mr. Kanely worked for the City of Gainesville, Florida for 34.5 years as Traffic Engineering Director and Transportation Services Manager. His experience covers traffic calming/roundabouts, traffic/transportation engineering designs/studies/reports, traffic operations, transportation planning, parking, development review and bicycle/ pedestrian activities. His experience with construction inspection is as follows:

#### **Construction Inspection Experience**

##### ***City of Gainesville Traffic Engineering/Public Works Department***

- City Downtown Parking Garage – Assisted with inspection of design-build contract for construction of an 800 space parking garage in downtown Gainesville. Included off site improvements that included streetscape, sidewalks, ADA ramps, traffic signs and pavement markings and directional signage.
- Traffic Calming – Inspected installation of various traffic calming devices on city maintained streets that included speed humps, speed tables and mini-traffic circles.
- Roundabouts – Assisted with inspection activities for construction of several modern roundabouts on city maintained streets, including sidewalks, ADA ramps and street lighting.
- Sidewalk Projects – Inspected sidewalk installation on city maintained streets.
- Streetscape Projects – Assisted with inspection of various streetscape projects in downtown Gainesville.
- Traffic Signal Construction – Provided inspection oversight for various traffic signal construction projects.
- Florida Department of Transportation Pavement Marking Projects – Provided inspection oversight for installation of pavement markings on FDOT roadway projects.

##### ***Volkert and Associates, Inc.***

- Sumter County – Assist Sumter County Public Works Department with inspection of roadway pavement/curb and gutter and drainage facilities for roadways in The Villages.





Mr. Bill Stevens, PE  
Assistant Public Works Director  
Sumter County  
319 E. Anderson Avenue  
Bushnell, Florida 33513

August 13, 2009

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Tampa, FL 33609-1433  
813.875.1365  
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[tampa@volkert.com](mailto:tampa@volkert.com)

Re: Proposal for Professional Construction Oversight Assistance  
CR 139 and C-466A, Sumter County, Florida,  
Volkert Proposal # 09-039

Dear Bill,

Per your request, it is anticipated that Volkert's participation will be for Professional Construction Oversight Assistance for the referenced projects:

SCOPE OF SERVICE:

1. Volkert staff to inspect both projects with a frequency that assures compliance with the plans and specifications. This frequency will be 3 field inspections per week, 2 hours maximum per day.
2. Volkert staff to bring to the County attention any deviations from the construction documents or best construction practices.
3. Volkert staff to review supporting documents and approve monthly invoices to the County.
4. Volkert to assist public works staff on final inspections.
5. Volkert to attend 2 bi-weekly construction coordination meetings at the Villages.
6. Volkert to document with weekly status reports, photos, e mails, letters etc.
7. County to provide copies of final plans, specs and monthly invoices for review and approval.

SCHEDULE: The current construction anticipates CR 139 Phase 1 & 2 will be completed by March or April 2010 and C 466A Phase 2 to be completed by September / October 2011.

FEE: Volkert to submit monthly invoices for a lump sum fee of \$ 4,750.00.

If you concur with this proposal, please forward a contract/purchase order allowing Volkert to proceed. Thank you for this opportunity to submit a proposal and if you have any questions, please give me a call.

SINCERELY,  
VOLKERT & ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read "Jerry Dabkowski".

JERRY A. DABKOWSKI, PE  
VICE PRESIDENT

**Office Locations:**

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